

Title (en)
CRYSTAL FORMS OF BETA-NICOTINAMIDE MONONUCLEOTIDE

Title (de)
KRISTALLFORMEN VON BETA-NICOTINAMID-MONONUKLEOTID

Title (fr)
FORMES CRISTALLINES DE BÊTA-NICOTINAMIDE MONONUCLÉOTIDE

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Priority

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Abstract (en)
[origin: GB2542881A] The invention relates to crystalline forms of a β -nicotinamide mononucleotide (NMN), methods of their preparation, and related pharmaceutical preparations thereof. In one aspect, a crystalline compound of formula (I): In another aspect, a pharmaceutical composition comprising a crystalline compound of formula (I) and one or more pharmaceutically acceptable excipients. In yet another aspect, a method for preparing a crystalline compound of formula (I) comprising providing a mixture of a compound of formula (I) in a solvent and crystallising the compound of formula (I) from the mixture. The crystalline compound of formula (I) may be anhydrous or a solvate. Preferred solvents include dimethylsulfoxide, methanol and water. The solution may be brought to the point of supersaturation to precipitate out the compound of formula (I). This may be achieved by adding an anti-solvent or by cooling the solution to ambient temperature or lower.

IPC 8 full level
C07H 19/048 (2006.01); **A61K 31/7028** (2006.01); **A61K 31/7032** (2006.01); **A61K 31/7052** (2006.01)

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Citation (search report)

- [E] WO 2018047715 A1 20180315 - KYOWA HAKKO BIO CO LTD [JP]
- [T] CAIRA M R ED - MONTCHAMP JEAN-LUC: "CRYSTALLINE POLYMORPHISM OF ORGANIC COMPOUNDS", TOPICS IN CURRENT CHEMISTRY; [TOPICS IN CURRENT CHEMISTRY], SPRINGER, BERLIN, DE, vol. 198, 1 January 1998 (1998-01-01), pages 163 - 208, XP001156954, ISSN: 0340-1022, DOI: 10.1007/3-540-69178-2_5
- See also references of WO 2017059249A1

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